

The mathematical description of the thermal combined laser and plasma impact on a material

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Abstract

© 2014 Irek Husnemardanovich Israphilov. The mathematical description of process of the thermal combined laser and plasma impact on a material taking into account ring influence of plasma is developed. Results of modeling of process of heating of Steel 45 by laser, ring plasma and combined laser and plasma energy streams.

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Keywords

Heat treatment, Laser, Plasma, Temperature distribution